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## What is claimed is:

- 1. A method for applying individualized calibrated tone-reproduction curves to enable printing of image data, comprising the steps of:
- (a) providing a plurality of calibrated tone-reproduction curves, each calibrated tone-reproduction curve corresponding to a distinct media type;
  - (b) determining a media type to be used in printing the image data;
  - (c) selecting a calibrated tone-reproduction curve based on the determined media type; and
  - (d) applying the selected calibrated tone-reproduction curve to print the image data.
    - 2. The method as claimed in claim 1, further comprising the step of:
    - (e) determining a halftone to be used in printing the image data;

said step (a) providing a plurality of calibrated tone-reproduction curves, each calibrated tone-reproduction curve corresponding to a distinct halftone type and media type combination;

said step (c) selecting a calibrated tone-reproduction curve based on the determined media type and determined halftone type.

3. The method as claimed in claim 1, further comprising the steps of:

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- (e) performing a plurality of calibration operations, each calibration operation using a distinct media type;
  - (f) generating a tone-reproduction curve for each media type; and
  - (g) storing the generated the tone-reproduction curves;
- 5 said step (a) providing a plurality of stored calibrated tone-reproduction curves, each stored calibrated tone-reproduction curve corresponding to a distinct media type.
  - 4. The method as claimed in claim 1, further comprising the steps of:
  - (e) performing a plurality of calibration operations, each calibration operation using a distinct media type and halftone type combination;
  - (f) generating a tone-reproduction curve for each media type and halftone type combination;
    - (g) storing the generated the tone-reproduction curves; and
    - (h) determining a halftone to be used in printing the image data;
  - said step (a) providing a plurality of stored calibrated tone-reproduction curves, each stored calibrated tone-reproduction curve corresponding to a distinct media type and halftone type combination;
  - said step (c) selecting a calibrated tone-reproduction curve based on the determined media type and determined halftone type.
    - 5. The method as claimed in claim 1, further comprising the steps of:

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- (e) performing a plurality of calibration operations, each calibration operation using a distinct media type;
  - (f) generating a tone-reproduction curve for each media type calibration;
- (g) comparing the plurality of tone-reproduction curves to group tone reproduction curves having similar characteristics;
  - (h) selecting a single tone-reproduction curve from a group of tone-reproduction curves having similar characteristics, each single tone-reproduction curve being the tone-reproduction curve associated with the media types that generated the tone-reproduction curve having similar characteristics;
    - (i) storing selected and non-grouped tone-reproduction curves; and
  - (j) generating a map to link a stored tone-reproduction curve to a media type, a stored tone-reproduction curve being capable of being mapped to more than one media type;

said step (a) providing a plurality of stored calibrated tone-reproduction curves, each stored calibrated tone-reproduction curve corresponding to a distinct media type.

- 6. The method as claimed in claim 1, further comprising the steps of:
- (e) performing a plurality of calibration operations, each calibration operation using a distinct media type and halftone type combination;
- (f) generating a tone-reproduction curve for each media type and halftone type combination calibration;

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(g) comparing the plurality of tone-reproduction curves to group tone-

reproduction curves having similar characteristics;

(h) selecting a single tone-reproduction curve from a group of tone-reproduction

curves having similar characteristics, each single tone-reproduction curve being the tone-

reproduction curve associated with the media type and halftone type combinations that

generated the tone-reproduction curve having similar characteristics;

(i) storing selected and non-grouped tone-reproduction curves; and

(j) generating a map to link a stored tone-reproduction curve to a media type and

halftone type combination, a stored tone-reproduction curve being capable of being

mapped to more than one media type and halftone type combination; and

(k) determining a halftone to be used in printing the image data;

said step (a) providing a plurality of stored calibrated tone-reproduction curves,

each stored calibrated tone-reproduction curve corresponding to a distinct media type and

halftone type combination;

said step (c) selecting a calibrated tone-reproduction curve based on the

determined media type and determined halftone type.

7. The method as claimed in claim 1, further comprising the step of:

printing of image data on a xerographic printing device using the selected calibrated tone-

reproduction curve.

8. A system for applying individualized calibrated tone-reproduction curves to

enable printing of image data, comprising:

a storage device to store and provide a plurality of calibrated tone-reproduction

curves, each calibrated tone-reproduction curve corresponding to a distinct halftone type

and media type combination;

an input device to select a media type to be used in printing the image data and to

select a halftone to be used in printing the image data; and

a processor to select a calibrated tone-reproduction curve based on the selected

media type and determined halftone type and to apply the selected calibrated tone-

reproduction curve to print the image data.

9. The system as claimed in claim 8, further comprising:

a xerographic printing device using the selected calibrated tone-reproduction curve to

print image data.

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10. The system as claimed in claim 9, wherein:

said input device selects a halftone to be used in printing the image data;

said storage device provides a plurality of calibrated tone-reproduction curves,

each calibrated tone-reproduction curve corresponding to a distinct halftone type and

20 media type combination;

said processor selects a calibrated tone-reproduction curve based on the selected

media type and selected halftone type.

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11. The system as claimed in claim 9, further comprising:

calibration means for performing a plurality of calibration operations, each calibration operation using a distinct media type;

said calibration means generating a tone-reproduction curve for each media type;

said storage device storing the generated the tone-reproduction curves and providing a plurality of stored calibrated tone-reproduction curves, each stored calibrated tone-reproduction curve corresponding to a distinct media type.

12. The system as claimed in claim 9, further comprising:

calibration means for performing a plurality of calibration operations, each calibration operation using a distinct media type;

said calibration means generating a tone-reproduction curve for each media type; said input device selecting a halftone to be used in printing the image data;

said storage device storing the generated the tone-reproduction curves and providing a plurality of stored calibrated tone-reproduction curves, each stored calibrated tone-reproduction curve corresponding to a distinct halftone type and media type combination;

said processor selecting a calibrated tone-reproduction curve based on the selected media type and selected halftone type.

13. The system as claimed in claim 9, further comprising:

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calibration means for performing a plurality of calibration operations, each calibration operation using a distinct media type;

said calibration means generating a tone-reproduction curve for each media type calibration;

said calibration means comparing the plurality of tone-reproduction curves to group tone-reproduction curves having similar characteristics;

said calibration means selecting a single tone-reproduction curve from a group of tone-reproduction curves having similar characteristics, each single tone-reproduction curve being the tone-reproduction curve associated with the media types that generated the tone-reproduction curve having similar characteristics;

said storage device storing selected and non-grouped tone-reproduction curves;

said calibration means generating a map to link a stored tone-reproduction curve to a media type, a stored tone-reproduction curve being capable of being mapped to more than one media type;

said storage device providing a plurality of stored calibrated tone-reproduction curves, each stored calibrated tone-reproduction curve corresponding to a distinct media type.

14. The system as claimed in claim 9, further comprising:

calibration means for performing a plurality of calibration operations, each calibration operation using a distinct media type and halftone type combination;

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said calibration means generating a tone-reproduction curve for each media type and halftone type combination calibration;

said calibration means comparing the plurality of tone-reproduction curves to group tone-reproduction curves having similar characteristics;

said calibration means selecting a single tone-reproduction curve from a group of tone-reproduction curves having similar characteristics, each single tone-reproduction curve being the tone-reproduction curve associated with the media type and halftone type combinations that generated the tone-reproduction curve having similar characteristics;

said storage device storing selected and non-grouped tone-reproduction curves;

said calibration means generating a map to link a stored tone-reproduction curve to a media type and halftone type combination, a stored tone-reproduction curve being capable of being mapped to more than one media type and halftone type combination; and

said input device selecting a halftone to be used in printing the image data; said storage device providing a plurality of stored calibrated tone-reproduction curves, each stored calibrated tone-reproduction curve corresponding to a distinct media

type and halftone type combination;

said processor selecting a calibrated tone-reproduction curve based on the selected media type and selected halftone type.

15. The system as claimed in claim 9, further comprising:

an auto-segmentation circuit to determine a halftone to be used in printing the image data;

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said storage device providing a plurality of calibrated tone-reproduction curves, each calibrated tone-reproduction curve corresponding to a distinct halftone type and media type combination;

said processor selecting a calibrated tone-reproduction curve based on the selected media type and determined halftone type.

16. The system as claimed in claim 9, further comprising:

calibration means for performing a plurality of calibration operations, each calibration operation using a distinct media type;

said calibration means generating a tone-reproduction curve for each media type; and

an auto-segmentation circuit to determine a halftone to be used in printing the image data;

said storage device storing the generated the tone-reproduction curves and providing a plurality of stored calibrated tone-reproduction curves, each stored calibrated tone-reproduction curve corresponding to a distinct halftone type and media type combination;

said processor selecting a calibrated tone-reproduction curve based on the selected media type and determined halftone type.

17. The system as claimed in claim 9, further comprising:

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calibration means for performing a plurality of calibration operations, each calibration operation using a distinct media type and halftone type combination;

said calibration means generating a tone-reproduction curve for each media type and halftone type combination calibration;

said calibration means comparing the plurality of tone-reproduction curves to group tone-reproduction curves having similar characteristics;

said calibration means selecting a single tone-reproduction curve from a group of tone-reproduction curves having similar characteristics, each single tone-reproduction curve being the tone-reproduction curve associated with the media type and halftone type combinations that generated the tone-reproduction curve having similar characteristics;

said storage device storing selected and non-grouped tone-reproduction curves;

said calibration means generating a map to link a stored tone-reproduction curve to a media type and halftone type combination, a stored tone-reproduction curve being capable of being mapped to more than one media type and halftone type combination; and

an auto-segmentation circuit to determine a halftone to be used in printing the image data;

said storage device providing a plurality of stored calibrated tone-reproduction curves, each stored calibrated tone-reproduction curve corresponding to a distinct media type and halftone type combination;

said processor selecting a calibrated tone-reproduction curve based on the selected media type and determined halftone type.

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18. A system for applying individualized calibrated tone-reproduction curves to enable printing of image data, comprising:

storage means for storing and providing a plurality of calibrated tone-reproduction

curves, each calibrated tone-reproduction curve corresponding to a distinct halftone type

and media type combination; 5

first means for determining a media type to be used in printing the image data;

second means for determining a halftone to be used in printing the image data;

and

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third means for selecting a calibrated tone-reproduction curve based on the

determined media type and determined halftone type and applying the selected calibrated

tone-reproduction curve to print the image data.

19. The system as claimed in claim 18, further comprising:

a xerographic printing device using the selected calibrated tone-reproduction

curve to print image data. 15

20. The system as claimed in claim 18, further comprising:

calibration means for performing a plurality of calibration operations, each

calibration operation using a distinct media type;

said calibration means generating a tone-reproduction curve for each media type;

said storage means storing the generated the tone-reproduction curves and

providing a plurality of stored calibrated tone-reproduction curves, each stored calibrated

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tone-reproduction curve corresponding to a distinct halftone type and media type combination;

said third means selecting a calibrated tone-reproduction curve based on the determined media type and determined halftone type.

21. The system as claimed in claim 18, further comprising:

calibration means for performing a plurality of calibration operations, each calibration operation using a distinct media type and halftone type combination;

said calibration means generating a tone-reproduction curve for each media type and halftone type combination calibration;

said calibration means comparing the plurality of tone-reproduction curves to group tone-reproduction curves having similar characteristics;

said calibration means selecting a single tone-reproduction curve from a group of tone-reproduction curves having similar characteristics, each single tone-reproduction curve being the tone-reproduction curve associated with the media type and halftone type combinations that generated the tone-reproduction curve having similar characteristics;

said storage means storing selected and non-grouped tone-reproduction curves;

said calibration means generating a map to link a stored tone-reproduction curve to a media type and halftone type combination, a stored tone-reproduction curve being capable of being mapped to more than one media type and halftone type combination; and

said storage means providing a plurality of stored calibrated tone-reproduction curves, each stored calibrated tone-reproduction curve corresponding to a distinct media type and halftone type combination;

said third means selecting a calibrated tone-reproduction curve based on the determined media type and determined halftone type.